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ENTOMOLOGICAL WRITINGS OF THE LATE REV. GEORGE D. HULST.

BY WILLIAM BEUTENMÜLLER.

- 1878. Larval and Pupal Stages of *Darapsa versicolor* Harr. (Can. Ent., Vol. X, 1878, p. 64.)
- 1879. The Scientific Names of Insects. (Can. Ent., Vol. XI, 1879, p. 22.)
- 1879. Letter relating to What Constitutes a Genus. (Can. Ent., Vol. XI, 1879, p. 39.)
- 1879. A Correction. (Can. Ent., Vol. XI, 1879, p. 80.)
- 1878. Notes on *Smerinthus geminatus*. (Bull. Bklyn. Ent. Soc., Vol. I, 1879, p. 67.)
- 1879. Notes on *Deiopeia bella*. (Bull. Bklyn. Ent. Soc., Vol. I, 1879, p. 83.)
- 1879. Notes on *Samia cynthia*. (Bull. Bklyn. Ent. Soc., Vol. I, 1879, p. 91.)
- 1879. Notes on a Trip to Florida. (Bull. Bklyn. Ent. Soc., Vol. II, 1879, p. 19.)
- 1879. The Uses of Cocoons. (Bull. Bklyn. Ent. Soc., Vol. II, 1879, p. 27.)
- 1879. Abnormal Larvæ. (Bull. Bklyn. Ent. Soc., Vol. II, 1879, p. 35.)
- 1879. Hints on Rearing Lepidoptera. (Bull. Bklyn. Ent. Soc., Vol. II, 1879, p. 63.)
- 1879. *Macroglossa thysbe*. (Bull. Bklyn. Ent. Soc., Vol. II, 1879, p. 38.)
- 1880. Capture of Rare Butterflies. (Bull. Bklyn. Ent. Soc., Vol. II, 1880, p. 81.)
- 1880. Food-Plants of Lepidopterous Larvæ. (Bull. Bklyn. Ent. Soc., Vol. II, 1880, p. 175.)
- 1880. Notes on *Nemoria Chloroleucaria*. (Bull. Bklyn. Ent. Soc., Vol. II, 1880, p. 78.)
- 1880. Descriptions of New Catocala. (Bull. Bklyn. Ent. Soc., Vol. II, 1880, p. 96.)
- 1880. Remarks on the Genus *Catocala* with a Catalogue of Species and Accompanying Notes. (Bull. Bklyn. Ent. Soc., Vol. III, 1880, pp. 2-13.)
- 1880. Description of Some New Species of Geometridæ. (Bull. Bklyn. Ent. Soc., Vol. III, 1880, p. 41.)
- 1881. Some Remarks upon *Catocalæ* in Reply to Mr. A. R. Grote. (Papilio, Vol. I, 1881, p. 215.)
- 1881. Descriptions of Some New Species of North American Lepidoptera. (Bull. Bklyn. Ent. Soc., Vol. III, 1881, p. 75.)
- 1881. Remarks on *Smerinthus myops*. (Bull. Bklyn. Ent. Soc., Vol. III, 1881, p. 99.)
- 1881. A good way to get rare Lepidoptera. (Bull. Bklyn. Ent. Soc., Vol. IV, 1881, p. 13.)
- 1881. Descriptions of some New Species of Geometridæ. (Bull. Bklyn. Ent. Soc., Vol. IV, 1881, pp. 13, 33.)
- 1882. Rearing of a Hybrid Moth. (Bull. Bklyn. Ent. Soc., Vol. IV, 1882, p. 57.)
- 1882. *Sesia Syringæ* Harr. (Bull. Bklyn. Ent. Soc., Vol. V, 1882, p. 17.)
- 1883. Notes on *Sesiidæ*. (Bull. Bklyn. Ent. Soc., Vol. VI, 1883, p. 8.)
- 1883. *Arctia nais* and Variations. (Bull. Bklyn. Ent. Soc., Vol. VI, 1883, p. 69.)
- 1884. A Communication in Reference to *Arctia nais*. (Bull. Bklyn. Ent. Soc., Vol. VI, 1884, p. 120.)
- 1884. The Genus *Catocala*. (Bull. Bklyn. Ent. Soc., Vol. VII, 1884, pp. 14-56, 1 pl.)

1884. Synopsis of Lepidoptera. (Bull. Bklyn. Ent. Soc., Vol. VII, 1884, pp. 101, 109.)
1885. *Spilosoma latipennis*. (Bull. Bklyn. Ent. Soc., Vol. VII, 1885, p. 120.)
1885. Notes on *Platysamia polyommata* Tepper. (Ent. Am. Vol. I, 1885, p. 155.)
1885. The Family Position of *Euphanessa mendica* Walk. (Ent. Am., Vol. I, 1885, p. 167.)
1885. Synopsis of Butterflies. (Ent. Am., Vol. I, 1885, p. 36.)
1886. Descriptions of New Pyralidæ. (Trans. Am. Ent. Soc., Vol. XIII, 1886, pp. 145-168.)
1886. New Species and Varieties of Geometridæ. (Ent. Am., Vol. I, 1886, pp. 202-208.)
1886. Larval History of *Spilosoma congrua* Walk. (Ent. Am., Vol. II, 1886, p. 15.)
1886. Notes upon Variations and Species of the Ennominae. (Ent. Am., Vol. II, 1886, p. 47.)
1886. Notes on Some Species of Geometridæ, No. 2—Geometrina. (Ent. Am., Vol. II, 1886, p. 139.)
1886. Lepidopterological Notes. (Ent. Am., Vol. II, 1886, p. 162.)
1886. Note on *Papilio ajax*. (Ent. Am., Vol. II, 1886, p. 182.)
1886. Three New Varieties and One New Species of Lepidoptera. (Ent. Am., Vol. II, 1886, p. 182.)
1886. Note on *Argynnis diana*. (Ent. Am., Vol. II, 1886, p. 183.)
1887. Salutory as Editor. (Ent. Am., Vol. III, 1887, p. 2.)
1887. Notes on Certain Pyralidæ. (Ent. Am., Vol. III, 1887, p. 21.)
1887. *Catocala badia*. (Ent. Am., Vol. III, 1887, p. 27.)
1887. New Species of Geometridæ, No. 3. (Ent. Am., Vol. II, 1887, pp. 185-192 and p. 210.)
1887. Abstract of Address of Rev. George D. Hulst, retiring President, at Annual Meeting of the Brooklyn Entomological Society. (Ent. Am., Vol. II, 1887, p. 205.)
1887. Notes on Some Species of Geometridæ, No. 3. (Ent. Am., Vol. II, 1887, p. 221.)
1887. Remarks on Professor Riley's Strictures. (Ent. Am., Vol. II, 1887, p. 236.)
1887. Larva of *Sisyrosea inornata* Gr. & Rob. (Ent. Am., Vol. III, 1887, p. 66.)
1887. Larva of *Apodes rubrolinearia* Pack. (Ent. Am., Vol. III, 1887, p. 72.)
1887. Notes on Food-plants of Geometridæ. (Ent. Am., Vol. III, 1887, p. 51.)
1887. Notes upon Some of Mr. Walker's Species of Geometridæ. (Ent. Am., Vol. III, 1887, p. 113.)
1887. Book Notices. (Ent. Am., Vol. III, 1887, pp. 57, 80.)
1887. New Species of Pyralidæ. (Ent. Am., Vol. III, 1887, p. 129.)
1887. Notes on *Theleteria costæmaculatus* and *Zophodia bollii*. (Ent. Am., Vol. III, 1887, p. 140.)
1887. The Collection of Insects in National Museum. (Ent. Am., Vol. III, 1887, p. 148.)
1887. A Bee New to Entomologists. (Ent. Am., Vol. III, 1887, p. 172.)
1887. Larva of *Acidalia insularia*. (Ent. Am., Vol. III, 1887, p. 175.)
1888. New Species of Geometridæ. No. 4. (Ent. Am., Vol. III, 1888, pp. 213-217.)

1888. The American Species of Callimorpha. (Ent. Am., Vol. III, 1888, p. 218.)
1888. Deilephila lineata. (Ent. Am., Vol. III, 1888, p. 219.)
1888. New Genera and Species of Epipaschiæ and Phycitidæ. (Ent. Am., Vol. IV, 1888, p. 113.)
1888. A Summer Trip to Southern California. (Ent. Am., Vol. III, 1888, p. 189.)
1888. Notes on Geometridæ. No. 4. (Ent. Am., Vol. IV, 1888, p. 49.)
1888. Faunal Limits of the United States. (Ent. Am., Vol. IV, 1888, p. 70.)
1888. Handling of Wasps Without Harm. (Ent. Am., Vol. IV, 1888, p. 86.)
1888. Book Notices. (Ent. Am., Vol. IV, 1888, pp. 38, 79, 99, 143, 164.)
1888. Insect Pests and the Means for Destroying Them. (Bull. 46, N. J. Agricul. Exp. St.)
1888. Insects Injurious to the Cabbage and the Best Means of Preventing their Ravages. (Bull. 50, N. J. Agricul. Exp. St.)
1888. Larva of Hemileuca nevadensis. (Ent. Am., Vol. III, 1888, p. 191.)
1888. Larva of Chlorosea bistriaria. (Ent. Am., Vol. III, 1888, p. 193.)
1889. The Epipaschiinæ of North America. (Ent. Am., Vol. V, 1889, pp. 41, 61.)
1889. To Free Breeding Cages from Disease Germs. (Ent. Am., Vol. V, 1889, p. 58.)
1889. The Eggs and Larva of Cerathosia tricolor Smith. (Ent. Am., Vol. V, 1889, p. 118.)
1889. Notes on the Catalogue of Phycitidæ and Galleridæ of North America by Mr. Ragonot. (Ent. Am., Vol. V, 1889, p. 155.)
1890. The Phycitidæ of North America. (Trans. Am. Ent. Soc., Vol. XVII, 1890, pp. 95-228, 3 pl.)
1892. New Species of Pyralidæ. (Can. Ent., Vol. XXIV, 1892, p. 59.)
1892. Prof. J. B. Smith's List of Lepidoptera. (Can. Ent., Vol. XXIV, 1892, p. 74.)
1894. Elementary Entomology Lepidoptera. Heterocera—Moths. (Ent. News, Vol. V, 1894, p. 65.)
1894. Relationship between the Pyralidina and Pterophorina. (Ent. News, Vol. V, 1894, p. 279.)
1894. Notes on Types of North American Geometrina in European Collections, I. (Ent. News, Vol. V, 1894, p. 302.)
1895. Genitalic Classification. (Can. Ent., Vol. XXVII, 1895, p. 11.)
1895. Descriptions of some new Species of Epipaschiinæ and Phycitidæ. (Can. Ent., Vol. XXVII, 1895, p. 53.)
1895. Notes on Types of North American Geometrina in European Collections, II-V. (Ent. News, Vol. VI, 1895, pp. 11, 40, 70, 103.)
1896. A Classification of the Geometrina of North America, with Descriptions of New Genera and Species. (Trans. Am. Ent. Soc., Vol. XXIII, 1896, pp. 245-386.)
1898. Descriptions of New Genera and Species of Geometrina of North America. (Can. Ent., Vol. XXX, 1898, pp. 113-126, 158-162, 191-195, 214-219.)
1900. A New Genus and Species of Phycitinæ. (Can. Ent., Vol. XXXII, 1900, p. 13.)
1900. Some New Species of Geometridæ. (Can. Ent., Vol. XXXII, 1900, p. 102.)

1900. Some New Genera and Species of Phycitinae. (Can. Ent., Vol. XXXII, 1900, p. 169.)
1900. New Species of Lepidoptera. (Journ. N. Y. Ent. Soc., Vol. VIII, 1900, pp. 215-225.)
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TWO NEW SESIIDÆ.

BY WM. BEUTENMÜLLER.

Sesia mariona, sp. nov.

Female. Head white, vertex pinkish; collar pale pinkish above, white beneath; palpi white. Antennæ black, with a greenish lustre. Thorax green black with a very large bright red patch on each side in front, contiguous with the bright red line on each side above. Abdomen and anal tuft wholly metallic green black. Legs metallic green black, anterior coxæ white. Fore wings metallic green black with a broad, bright red line along the inner margin; extreme edge of costa pale testaceous or dirty white. Hind wings brown with a violaceous lustre, central part with two transparent areas, the upper one broken by the discal mark. Underside of wings brown with a decided violaceous lustre, costal margins pale testaceous. Expanse, 17-20 mm.

Habitat: Trimble and Pagossa Springs, and Durango, Colorado, July 6, 19 and 30, 1899.

Types: Two females. Coll. Dr. William Barnes, Decatur, Illinois. One female. Coll. Am. Mus. Nat. Hist.

Described from three females. The male and earlier stages of the species are unknown.

Sanninoidea græfii, var. **barnesii**, var. nov.

Female. Head, thorax and legs entirely metallic blue-black. Abdomen blue-black, with the fourth segment above orange. Fore wings opaque blue-black. Hind wings transparent with the margin blue-black. Expanse, 28 mm.

Habitat: Clear Creek Cañon, Colorado, August.

Type: Coll. W. Barnes, Decatur, Illinois. Like the type form, but has the fourth abdominal segment orange above, giving it the aspect of the female of *Sanninoidea exitiosa*.